LISTING OF CLAIMS

The listing of claims provided below replaces all prior versions, and listings, of claims in the application.

5 1. (Previously Presented) A method for monitoring a data center, the method comprising:

transmitting an identifiable acoustic signal from a transmitter device defined on a source within a data center;

receiving the acoustic signal from the transmitter device defined on the source by at least two sensors;

processing the received acoustic signal using data from the at least two sensors to identify an approximate physical location of the source; and

reporting the physical location of the source over a network.

15 2. (Previously Presented) A method for determining a physical location of a source, the method comprising:

receiving an acoustic signal from a source placed within an acoustic monitoring area;

processing a received acoustic signal, the processing using data from at least two sensors;

identifying an approximate localized point in the acoustic monitoring area, the approximate localized point defining a physical location of the source; and

reporting the physical location of the source over a network, wherein the source is a computer system or a rack including the computer system.

3. (Previously Presented) A method for determining a physical location of a source, the method comprising:

receiving an acoustic signal from a source placed within an acoustic monitoring area;

5 processing a received acoustic signal, the processing using data from at least two sensors;

identifying an approximate localized point in the acoustic monitoring area, the approximate localized point defining a physical location of the source; and

reporting the physical location of the source over a network, wherein the acoustic monitoring area is a data center.

- 4. (Original) A method as recited in claim 1, wherein each sensor of the at least two sensors is a microphone.
- 5. (Previously Presented) A method as recited in claim 1, wherein the operation of processing the received acoustic signal is an arrival-time correlation process, distributed sensor/time of flight process, or an echolocation process.
- 6. (Original) A method as recited in claim 1, wherein the approximate locale of the source is determined by an acoustic signal processor.
 - 7. (Original) A method as recited in claim 1, wherein the physical location of the source is reported out-of-band.

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- 8. (Original) A method as recited in claim 7, wherein the physical location of the source is reported using wireless technology.
- 9. (Previously Presented) A localizing system for determining a physical location of a source, the localizing system comprising:

an acoustic environment configured to include the source, wherein the acoustic environment is a data center;

a transmitter device for transmitting streams of identifiable acoustic signals, the transmitter device being defined on the source;

at least a pair of compact sensors for detecting and capturing the streams of acoustic signals transmitted by the transmitter device; and

a signal processor for receiving and processing captured streams of acoustic signals so as to ascertain the physical location of the source.

- 15 10. (Previously Presented) A localizing system as recited in claim 9, wherein the physical location of a rack is ascertained using an arrival-time correlation process.
- 11. (Original) A localizing system as recited in claim 9, the localizing20 system further comprising:

a computer console for processing and displaying a location of the source in the acoustic environment.

12. (Original) A localizing system as recited in claim 9, wherein the pair of compact sensors is a pair of microphones.

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13. (Cancelled)

- 14. (Previously Presented) A localizing system as recited in claim 9, wherein the data center includes a plurality of structures each including a system site, each system site including a plurality of racks, each rack including a plurality of computer systems.
- 15. (Original) A localizing system as recited in claim 14, wherein each system site includes a signal processor.
 - 16. (Original) A localizing system as recited in claim 15, wherein each signal processor is defined on a central location in each system site.
- 15 17. (Currently Amended) A method for ascertaining a physical location of a failed computer system in a data center, the method comprising:

receiving a failure report from the failed computer system;

transmitting streams of acoustic signals;

capturing transmitted streams of acoustic signals; and

processing the transmitted streams of acoustic signals so as to determine the physical location of the failed computer system; and

reporting the physical location of the failed computer system.

18. (Cancelled)

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19. (Original) A method as recited in claim 17, wherein the operation of receiving the failure report from the failed computer system includes,

generating the failure report by the failed computer system; and communicating the failure report of the failed computer system.

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- 20. (Original) A method as recited in claim 19, wherein the failure report is communicated out-of-band to a signaling circuitry.
- 21. (Original) A method as recited in claim 17, wherein the operation of transmitting streams of acoustic signals includes,

defining an acoustic signal emitter on an outer surface of a rack including the failed computer system; and

generating streams of acoustic signals having identifiable characteristics.

15 22. (Original) A method as recited in claim 17, wherein the operation of capturing the transmitted streams of acoustic signals includes,

receiving streams of acoustic signals;

identifying streams of acoustic signals having identifiable characteristics; and capturing transmitted streams of acoustic signals having identifiable characteristics.

- 23. (Original) A method as recited in claim 17, wherein the operation of processing transmitted streams of acoustic signals so as to determine the physical location of the failed computer system includes,
- 25 sending transmitted streams of acoustic signals to a signal processor;

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converting the transmitted streams of acoustic signals; and

executing converted streams of acoustic signals by a computer software so as to determine the physical location of the failed computer system.

- 5 24. (Original) A method as recited in claim 23, wherein the physical location of the failed computer system is determined using an arrival-time correlation process.
- 25. (Original) A method for generating a sonic map of a data center, the method comprising:

for each system site in the data center,

defining an acoustic signal processor on a central location of the system site; and

for each rack in the system site,

placing an acoustic signal emitter on a rack; and

for each computer system in the rack,

generating an identifiable signal;

communicating the identifiable signal to the rack;

transmitting associated streams of acoustic signals;

capturing transmitted streams of acoustic signals by the

acoustic signal processor;

processing transmitted streams of acoustic signals; and

displaying a locality of the computer system generating the

identifiable signals.

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